

Amendment

Attorney Docket No. 024295-261

Serial No. 10/072,638

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. Claims 1-6 (Canceled).
7. (Currently Amended) In the method of protecting foundry molds from eroding and pitting during sandcasting by preventing adherence of molding sand to mold pattern surfaces, wherein a pattern coating composition is applied to the mold pattern surfaces in an amount sufficient to form a coating thereon which prevents adherence of sand to the mold pattern, the improvement comprising coating the mold pattern surfaces with a pattern coating composition comprising from about 90% to 99.5% vegetable oil and a viscosity reducer selected from the group consisting of mineral seal oil, alcohol and mixtures thereof.
8. (Original) The method of claim 7 wherein said pattern coating composition comprises from about 90% to 10% vegetable oil and 10 to 90% mineral seal oil.
9. (Original) The method of claim 8 wherein said pattern coating composition comprises approximately equal parts vegetable oil and mineral seal oil.
10. (Currently Amended) The method of claim 8 wherein said pattern coating composition further ~~comprising~~ comprises alcohol.
11. (Original) The method of claim 10 wherein said alcohol is present from about 0.5 to 10% by weight of the composition.
12. (Original) The method of claim 7 wherein said viscosity reducer comprises alcohol.

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13. (Original) The method of claim 12 wherein said pattern coating composition comprises from about 90% to 99.5% vegetable oil and about 0.5% to 10% alcohol.
14. (Currently Amended) The method of claim 7 wherein said vegetable oil is selected from the group consisting of corn oil, sesame oil, rapeseed oil, sunflower oil, palm oil, coconut oil, peanut oil, soybean oil, canola oil and mixtures ~~mixture~~ thereof.
15. (Original) The method of claim 14 wherein said vegetable oil comprises corn oil.
16. (Original) The method of claim 12 wherein said alcohol is selected from the group consisting of ethanol, propanol, butanol and combinations thereof.
17. (Original) The method of claim 16 wherein said alcohol comprises ethanol.
18. (Original) The method of claim 17 wherein said vegetable oil comprises corn oil.
19. (Original) The method of claim 7 wherein said pattern coating composition further comprises a long chain fatty acid selected from the group consisting of palmitic acid, stearic acid, myristic acid, lauric acid, oleic acid, linoleic acid, linolenic acid and mixtures thereof.
20. (Previously Presented.) The method of claim 19 wherein said long chain fatty acid comprises oleic acid.
21. (Original) The method of claim 20 wherein said viscosity reducer comprises a mixture of mineral seal oil and alcohol.
22. (Original) The method of claim 21 wherein said vegetable oil and said mineral seal oil are present in said composition in approximately equal parts.
23. (Currently Amended) A method for facilitating release of molding sand from mold pattern surfaces comprising applying to the mold pattern surfaces an effective amount of a

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biodegradable pattern coating composition, wherein the biodegradable pattern coating composition comprises from about 10% to 99.5% vegetable oil;

a viscosity reducer selected from the group consisting of petroleum oil, alcohol, and ~~mixture~~ mixtures thereof, and optionally a fatty acid.

24. (Original) The method of claim 23 wherein said pattern coating composition has a volatile organic compound (VOC) content of less than 3.8 lbs/gal as measured by EPA method 24.

25. (Original) The method of claim 23 wherein said pattern coating composition emits less than 4.0 mg benzene per gram of the composition when tested in accordance with the AFS emission test method for release coatings.

26. (Original) The method of claim 23 wherein said pattern coating composition comprises approximately equal parts vegetable oil and petroleum oil.

27. (Original) The method of claim 26 wherein said pattern coating composition further comprises oleic acid and alcohol.

28. (Original) The method of claim 27 wherein said vegetable oil comprises corn oil and said petroleum oil comprises mineral seal oil.

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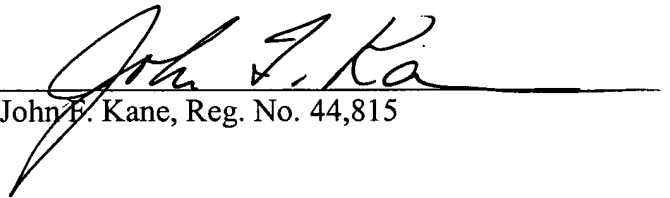
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In view of the foregoing response, it is respectfully submitted that the claims now pending are patentably distinct from the references cited and are in condition for allowance. Reconsideration and withdrawal of the rejections of record is respectfully requested. If the examiner wishes to discuss any aspect of this response, please contact the undersigned at the telephone number indicated below.

Respectfully submitted,



John F. Kane, Reg. No. 44,815

THOMPSON HINE LLP
2000 Courthouse Plaza, N.E.
P.O. Box 8801
Dayton, Ohio 45401-8801
937-443-6816